



Early Journal Content on JSTOR, Free to Anyone in the World

This article is one of nearly 500,000 scholarly works digitized and made freely available to everyone in the world by JSTOR.

Known as the Early Journal Content, this set of works include research articles, news, letters, and other writings published in more than 200 of the oldest leading academic journals. The works date from the mid-seventeenth to the early twentieth centuries.

We encourage people to read and share the Early Journal Content openly and to tell others that this resource exists. People may post this content online or redistribute in any way for non-commercial purposes.

Read more about Early Journal Content at <http://about.jstor.org/participate-jstor/individuals/early-journal-content>.

JSTOR is a digital library of academic journals, books, and primary source objects. JSTOR helps people discover, use, and build upon a wide range of content through a powerful research and teaching platform, and preserves this content for future generations. JSTOR is part of ITHAKA, a not-for-profit organization that also includes Ithaka S+R and Portico. For more information about JSTOR, please contact support@jstor.org.

NOTE ON THE CAPTURE OF *BROTIS VULNERARIA*.

BY RODRIGUES OTTOLENGUI.

It may be of interest for me to record the capture of the geometrid moth *Brotis vulneraria*. I captured a single male specimen in Prospect Park, Brooklyn, last July, and have just had it identified.

This insect was taken in Florida and named *floridensis* by Holland, the type being now in the collection of Dr. Hulst. As it is rather common in Mexico the discovery of a single specimen in Florida scarcely gave it a place in our list. Later, however, its capture was reported in Buffalo, and in Smith's check list Mr. Hulst has given it a place, adopting Hübner's nomenclature however, of which Holland's *floridensis* is undoubtedly a synonym. My capture emphasizes the correctness of including it in our list, although I believe thus far only males have been taken here.

It is rather a handsome insect, chocolate brown in color, except that an orange colored triangular blotch appears about the middle of the upper margin of the primaries. It expands one and five eighths inches.

LIST OF THE COLEOPTERA OF NORTH EASTERN AMERICA, WITH SPECIAL REFERENCE TO THE FAUNA OF NEW YORK CITY AND VICINITY.

BY CHARLES W. LENG AND WM. BEUTENMULLER

In advance of a Hand-book of Coleoptera found in North Eastern America, the preparation of which is contemplated, we herewith desire to give a list of the species, as far as known to occur in the region just specified, with the hope that all interested in this undertaking, will inform us of any corrections and additions that they may be able to make, in order to have the list as complete as possible. The present list comprises the species found near New York, compiled from the MS., lists of Messrs. M. L. Linell, C. H. Roberts, J. B. Smith, C. W. Leng, Wm. T. Davis, O. Dietz, Wm. Beutenmuller and others; also the species named in the Cincinnati list of Mr. Charles Dury; the Buffalo list

of Messrs. Reinecke and Zesch ; the New Jersey list of Prof. J. B. Smith ; the Canadian lists of W. H. Harrington ; J. Petit and W. Couper ; also the species credited to the N. E. States and Canada in the synopses of Horn, Leconte, Crotch, Schaupp, Blanchard, Dietz, Smith, Jayne and Leng.

The territory included, of which a map will be published later, includes Canada, Nova Scotia, New Brunswick, Labrador, Newfoundland, Greenland, the New England States, the Middle States, Maryland, Delaware, Ohio, Indiana and Illinois ; in short the country lying east of the Mississippi River and north of D. C., W. Va. and Kentucky. We have occasionally omitted a species said to be found on the southern limits of this territory, regarding it as a wanderer from our southern fauna.

CICINDELIDÆ.

CICINDELA Linn.

All the species of *Cicindela* are found running in the sunlight, usually in sandy fields or on the shores of ocean or rivers. A few species frequent sunny spots or roads in the woods and occasionally conceal themselves during the day under bark or among grass roots.

C. unipunctata Fabr.—N. Y., N. J., Pa., (also Mo., Ga). Very rare near New York City, only a few examples have ever been taken ; a single specimen was taken in Bronx Park last year, by Mr. C. Schæffer—June.

C. longilabris Say.—N. Hampshire, Can., Nova Scotia, and northward, (also Colorado).

var. perviridis Schp.—Newfoundland (also Cal., Or., Utah).

C. scutellaris *var. rugifrons* Dej.—N. Y., Mass., R. I., Md. Occurs at Jamaica, L. I., and in Westchester Co. Not common. June and September.

var. modesta Dej.—N. Y., N. J., Pa. This species is double brooded in this vicinity. It is abundant but confined to a few scattered localities e. g. Greenville, N. J., Marion, N. J., Watchogue, S. I., and Richmond Valley, S. I. April, June, Sept., October.

C. sexguttata Fab.—N. E. Amer. Abundant and widely distributed. Common in this vicinity and frequents woods.

var. patruela Dej.—N. E. Amer. Occurs at Peekskill, N. Y., in woodpaths. Collected by J. D. Sherman. June, Sept.

var. consentanea Dej.—N. Y., N. J., Pa. (also Nebr.). Rare.

C. purpurea Oliv.—N. E. Amer. Probably double brooded ; abundant in pastures and grass-grown roads in early spring and again in September.

var. limbalis Klug.—N. E. Amer. Less frequently in the same situations.

var. sprete Lec.—Maine.

var. splendida Hentz.—N. Y., (also Tex., Ks., Neb., N. C.). (Schaupp Synopsis).

C. formosa *var. generosa* Dej.—N. Y., N. J., Pa., Mass., Illinois west to Col. and Mo. In this vicinity it occurs with *C. modesta* but spreads over wider territory ; is more abundant and occurs all summer long. May—Sept.

C. ancocisconensis *Harr.*—Buffalo, N. Y., Pa., N. J., Ill., N. H., Mass. Taken at Caldwell, N. J., by Mr. Crane.

C. vulgaris *Say.*—N. E. Amer. On sandy roads; widely distributed but not common near N. Y. June—Sept.

C. repanda *Dej.*—N. E. Amer. Everywhere one of the most common species we have. April—Oct.

var. 12-guttata *Dej.*—N. E. Amer. With the type but quite rare.

C. hirticollis *Say.*—N. E. Amer. Occurs on sea-shore and lake-shores; in this vicinity it does not appear until June. June—Sept.

C. punctulata *Oliv.*—N. E. Amer. Common on dry clay roads or city streets. June—Sept.

C. dorsalis *Say.*—N. Y., N. J. Found on the open sea-shore only; does not appear until July and is found to September.

C. marginata *Fabr.*—N. J., N. Y., Mass. Occurs on damp mud-flats near the sea-coast. Not rare but local.

C. cuprascens *Lec.*—Ohio (Dury).

C. puritana *Horn.*—N. H., Mass., N. Y. Does not occur in this vicinity.

C. macra *Lec.*—Illinois and west to Mo. and Kan.

C. lepida *Dej.*—N. Y., N. J. and westward. In this vicinity it occurs on the sandy hills at Rockaway Beach, Coney Island and Long Beach, L. I., and on a sandy patch at Jamesburg, N. J. July.

C. rufiventris *Dej.*—Ohio (O. Dietz). (Also D. C., Va., W. Va., Md., to Ky. and Ala.).

C. Hentzii *Dej.*—Mass.

C. tortuosa *Dej.*—N. J. and southward. Mr. Chas. Liebeck has taken this species at Atlantic City, N. J.

C. marginipennis *Dej.*—N. Y., Pa. Occurs on river banks at Callicoon, N. Y. July.

C. abdominalis *Fabr.*—N. J. and southward. Occurs rarely in the pine wood in southern New Jersey.

CARABIDÆ.

OMOPHRON *Latr.*

These species live in wet sand at the borders of brooks and ponds; by pouring water over the bank they are dislodged and captured.

O. labiatum *Fabr.*—Rare in the Middle, more common in the Southern States. In this vicinity it occurs at Coney Island and Rockaway Beach, L. I.

O. robustum *Horn.*—Nova Scotia and Cincinnati, Ohio, where it is plentiful on the banks of the Ohio (Dury), also found in Michigan.

O. americanum *Dej.*—N. E. Amer. The common species in this vicinity. Found on Staten Island, Long Island, Westchester Co., and New Jersey.

O. tessellatum *Say.*—N. E. Amer. In this vicinity it has been found at Coney Island.

CYCHRUS *Fabr.*

These species and the Carabidæ that follow are found under stones, logs and rubbish, preferring moist situations. A few which will be mentioned have other habits. The species of *Cychnus* live on snails.

C. nitidicollis *Chev.*—Hud. Bay Terr. to W. Va.; not found near New York.

var. Brevoorti *Lec.*—Maine, Canada. Not found near New York City.

C. stenostomus *Weber.*—N. Y., N. J., N. C., Pa., Mich.

var. Lecontei *Dej.*—N. E. Amer. Not rare in New York.

var. bicarinatus *Lec.*—N. E. Amer. Very rare. Not found near New York City.

C. canadensis *Chaud.*—Can. to Md. Not found near New York City.

C. elevatus *Fabr.*—Middle States to Colorado. Rare.

var. heros *Harr.*—Staten Island, N. Y., N. J., Ohio. Very rare.

var. unicolor *Oliv.*—Occurs with the type.

C. viduus *Dej.*—N. Y., N. J., Pa., Va., Indiana. In this vicinity it has been captured at Lake Hopatcong and Fort Lee, N. J., Yonkers and Mosholu, N. Y.

C. Ridingsii *Bland.*—Pa., W. Va. Not found near New York City.

C. Andrewsii *Harr.*—Pa., N. C., Va., W. Va., Ohio. Not found near New York City.

NOMARETUS *Lec.*

Live in mountainous districts, feeding on snails; rare everywhere.

N. bilobus *Say.*—Lake Superior. Ohio, (also Mo.).

N. imperfectus *Horn.*—Pa., N. C.

N. fissicollis *Lec.*—Illinois, (also Kan.).

CARABUS *Linn.*

C. Chamissonis *Fisch.*—White Mts., N. Hamp., Labrador, Greenland and Alaska.

C. sylvosus *Say.*—Can., N. Y., N. J., south to Texas. Rare in this vicinity.

C. serratus *Say.*—N. E. Amer. Not common in this vicinity.

C. limbatus *Say.*—N. E. Amer. Not rare in this vicinity.

C. vinctus *Fabr.*—N. E. Amer. Abundant in this neighborhood, especially along the Palisades, N. J.

C. nemoralis *Muls.*—Maine. A European species now abundant. (Harbeck.)

CALOSOMA *Web.*

C. externum *Say.*—N. E. Amer. Rare in the vicinity of New York.

C. Wilcoxii *Lec.*—Can., Atlantic States and westward. Rare in this vicinity, more common in the west.

C. frigidum *Khy.*—Northern States and Canada. Not found in this vicinity.

C. Sayi *Dej.*—Eastern and Southern States and westward.

C. triste *Lec.*—Central States. Not found here.

C. obsoletum *Say.*—Central States. Not found here.

C. calidum *Fabr.*—N. E. Amer. Abundant.

C. scrutator *Fabr.*—N. E. Amer. Abundant. Very common at the electric lights in June about New York.

ELAPHRUS *Fabr.*

Occur on mudflats, running in the sunshine.

E. Clarivillei *Khy.*—Canada, N. Y. and Westward. Not found in this vicinity. March—May.

E. olivaceus *Lec.*—N. Y. (Catskills).

E. cicatricosus *Lec.*—Canada. In this vicinity it has been taken at Steinway, L. I., by Mr. Julich.

E. fuliginosus *Say.*—Can., N. Y. and westward. Taken at Snake Hill, N. J., by Mr. M. Linell.

E. riparius *Linn.*—Calif., Alaska, Europe. Said to be found in the vicinity of New York City, by Mr. Wm. Julich.

E. ruscarius.—N. E. Amer. Our common species. May—June.

BLETHISA *Bon.*

B. Julii *Lec.*—Nova Scotia. Lives during the summer near rain pools.

B. quadricollis *Hald.*—Canada, Buffalo, N. Y., N. J. Rare. Found in similar situations as the preceding species.

B. multipunctata *Linn.*—North. U. S.

NOTIOPHILUS *Dum.*

Live in damp sunny places under chips, leaves, etc.; especially at the base of trees.

N. æneus *Hbst.*—Northern U. S. Not rare in this vicinity.

N. semistriatus *Say.*—Canada, N. Hampshire, Cal.

N. sibiricus *Mots.*—Canada and Northern U. S. to Siberia. Ohio (O. Dietz). Not rare on Long Island, N. Y., also found at Newark, N. J. (Smith).

N. Hardyi *Putz.*—Newfoundland to New York. Rare at Silver Lake, Staten Island (Leng). Westchester Co. (W. B.)

NEBRIA *Latr*

Live under stones near brooks and rivers.

N. suturalis *Lec.*—Lake Superior to New Hamp.

N. Sahlbergi *Fisch.*—Alaska to Oregon and New Hampshire, Labrador.

N. pallipes *Say.*—N. E. Amer. Abundant near Passaic, N. J., Staten Island, and along the Bronx river, N. Y.

N. Eschscholtzii *Men.*—Or., Cal. Found at Buffalo, N. Y.

PASIMACHUS *Bon.*

Found under stones, logs and cow-dropping in dry sandy places.

P. sublævis *Beauv.*—New York southward and westward. In this vicinity it is found at Coney Island, Rockaway Beach, L. I., Sandy Hook, N. J., and various other sandy districts in New Jersey. July—Sept. Frequent.

P. depressus *Fabr.*—New York to Illinois and southward. Not found in the vicinity of New York City.

P. punctulatus *Hald.*—N. Y. to La. and Ill. Found at Egg Harbor by Mr. Liebeck (Smith).

P. elongatus *Lec.*—N. J. westward and southward. Ohio (Dury).

SCARITES *Fabr.*

Common in ploughed fields; mimics the rigidity of death when captured.

S. subterraneus *Fabr.*—N. E. Amer. Common in this vicinity.

var. substriatus *Hald.*—Western and Southern States. N. J. (Smith), Ohio (Dury), Wisconsin (O. Dietz).

DYSCHIRIUS *Bon.*

Live in wet sandy places, where they dig holes; they may be dislodged by pouring water over their burrows or may be readily captured towards evening when they leave their hiding places.

- D. æneolus** *Lec.*—Can., N. Y. City (Jülich), (also Col., Cal., Br. Col.).
- D. globulosus** *Say.*—N. E. Amer. Common under stones in wet meadows.
- D. longulus** *Lec.*—Can., Ohio. Not taken in this vicinity.
- D. hæmorrhoidalis** *Dej.*—Ohio, (also Kans.).
- D. brevispinus** *Lec.*—Mich., Ohio.
- D. sphæricollis** *Say.*—N. E. Amer. Common at Coney Island, Rockaway and Long Beach, L. I.
- D. erythrocerus** *Lec.*—N. Y., Ohio. Common at Coney Island, Rockaway and Long Beach, L. I.
- D. sellatus** *Lec.*—N. Y., N. J., (also Mo.). Common at Coney Island, Rockaway and Long Beach, L. I.
- D. pallipennis** *Say.*—N. Y., N. J. Not common at Coney Island and Long Beach, L. I.
- D. hispidus** *Lec.*—Canada (Harrington).
- D. nigripes** *Lec.*—Ottawa, Can. (Harrington).
- D. filiformis** *Lec.*—N. Y., N. J. Under boards on damp sand at Coney Island (Leng).
- D. pumilus** *Dej.*—N. Y. to Fla. Coney Island and Rockaway Beach, L. I.
- D. setosus** *Lec.*—N. Y. Found in the vicinity of N. Y., by Mr. M. Linell.
- D. terminatus** *Lec.*—Atlantic City (Liebeck, Wenzel). Described from Cal.
- D. truncatus** *Lec.*—Ill., (also Mo.).

CLIVINA *Latr.*

Like *Dyschirius*, these species affect very damp situations.

- C. dentipes** *Dej.*—N. Y., south and westward.
- C. impressifrons** *Lec.*—N. Y., N. J., Pa., Ohio, (also Kans.). Not found in this vicinity.
- C. rubicunda** *Lec.*—N. J. to La. Not found in this vicinity.
- C. rufa** *Lec.*—Ill. to La. Not found in this vicinity.
- C. collaris** *Hbst.*—Europe, Mass., Ohio. Not found in this vicinity.
- C. americana** *Dej.*—N. E. Amer. Not rare in this vicinity. May and Sept.
- C. striatopunctata** *Dej.*—N. Y. to La. Found at Brigantine Beach, N. J.
- C. ferrea** *Lec.*—N. J. to Tex. Not found in this vicinity.
- C. convexa** *Lec.*—N. J. to Tex. Found at Atlantic City, N. J.
- C. bipustulata** *Fabr.*—N. Y. to Fla., Ind., (also Mo.). Found on Staten Island (Davis) and New York City at light (W. B). Not common.
- C. cordata** *Putz.*—Buffalo, N. Y., Can. Not found in this vicinity.
- C. pallida** *Say.*—Can.
- C. postica** *Lec.*—Ohio.

(TO BE CONTINUED).